

Title (en)

Device for protecting a pump against dry running

Title (de)

Vorrichtung um eine Pumpe gegen Trockenlaufen zu Schützen

Title (fr)

Dispositif pour la protection d'une pompe en l'absence d'eau

Publication

**EP 0805274 A3 19990203 (EN)**

Application

**EP 97830198 A 19970430**

Priority

IT FI960102 A 19960503

Abstract (en)

[origin: EP0805274A2] The device comprises: a flowstat 16 with a slider 16B with a built-in magnet 22 designed to interfere with a proximity-operated electric switch 20A; a variable-volume chamber 1 with a flexible wall 9 and spring means 28 that tend to reduce its volume; and a slider 26 combined with said flexible wall 9 and comprising a cam profile 30 acting on the movable slider 16B of the flowstat in the event of a drop in pressure in said chamber 1, in order to displace said slider 16B in the same direction in which the slider is displaced by the flow that passes through the flowstat; by this means the pump is actuated to restore the pressure in said chamber 1; whereas when the pressure in said chamber 1 drops further, owing to a lack of supply of liquid to the pump, the cam profile 30 ceases to act on the movable slider 16B and the pump stops. <IMAGE>

IPC 1-7

**F04B 49/02**

IPC 8 full level

**F04B 49/02** (2006.01)

CPC (source: EP US)

**F04B 49/02** (2013.01 - EP US)

Citation (search report)

- [DA] EP 0321376 A2 19890621 - BANUS GARCIA FERNANDO
- [A] PATENT ABSTRACTS OF JAPAN vol. 006, no. 253 (M - 178) 11 December 1982 (1982-12-11)
- [A] PATENT ABSTRACTS OF JAPAN vol. 008, no. 043 (M - 279) 24 February 1984 (1984-02-24)

Cited by

EP1479911A1; EP0915256A3; CN103114985A; WO2005035985A1

Designated contracting state (EPC)

AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

**EP 0805274 A2 19971105; EP 0805274 A3 19990203; EP 0805274 B1 20030402**; DE 69720315 D1 20030508; DE 69720315 T2 20040212; ES 2193343 T3 20031101; IT 1286618 B1 19980715; IT FI960102 A0 19960503; IT FI960102 A1 19971103; US 5927950 A 19990727

DOCDB simple family (application)

**EP 97830198 A 19970430**; DE 69720315 T 19970430; ES 97830198 T 19970430; IT FI960102 A 19960503; US 84683597 A 19970501